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COLLECTING SHELLS FROM THE ABALONE.

BY T. S. OLDROYD.

At White's Point, four miles from San Pedro, California, is a station for the Japanese abalone gatherers. They go around to the different islands and places along the main shore where they are plentiful. The divers, in their suits, go down in from two to six or eight fathoms, pry the shells from the rocks, and put them in a sling net, and they are hauled on deck, the average day's work being from one to two tons. They are brought to the station, where the meat is taken out, boiled, dried in the sun, packed in cans and shipped, mostly to China, I am told, where they are considered quite a delicacy. The shells are piled up on shore, and are sold to jewelry and novelty manufacturers. The red abalone (*Haliotis rufescens* Swains.) they get on the island of Santa Cruz and places to the north of here, while the Green Abalone (*Haliotis fulgens* Phil.), the corrugated (*Haliotis corrugata* Gray), and the black (*Haliotis cracherodii* Leach) are found further south. The shells are not things of beauty to look at in their natural state, most of them being badly worm-eaten and covered with moss, barnacles and *Vermetus* tubes; *Lithophagus plumula* Hanl., and *Pholadidia sagitta* Stearns bore holes in the shells and sometimes bore through and the animal has to protect itself by covering them over with patches of nacre. Among the moss barnacles and *Vermetus*, are ideal protected places for the small and microscopic shells to live in. None of these live on the abalone exclusively, but in the protected places in the rocks and stones, as well. I do not know as they prefer the *Haliotis* to

the rocks, but I think he is a good-natured inoffensive big fellow and does not eat up his little neighbors and companions. We have a *Barleeia* that is said to be a lover of the *Haliotis*, but I have found but very few of them, the *Odostomia* being by far the most plentiful.

When it gets dull on the farm and we want a day's outing, Mrs. Oldroyd and myself go to White's Point for a day's collecting. We do not have to wait for a low tide or go near the water, but make us a comfortable seat at one of these large piles of shells and pick off the little shells till we get tired. We find out where the abalone comes from so as to get the locality of the small shells.

The following list is what we got in a few days' collecting, but this is nowhere near the limit to what might be found. They were determined from others in our collection, which were determined at Washington through the kindness of Doctors Dall and Bartsch :

<i>Odostomia tenuisculpta</i> Cpr.	<i>Leptothyra bacula</i> Cpr.
<i>Odostomia straminea</i> Cpr.	<i>Phasianella pulliodes</i> Cpr.
<i>Odostomia helga</i> D. & B.	<i>Eulithidium substriatum</i> Cpr.
<i>Marginella varia</i> Sby.	<i>Calliostoma supergranosum</i> Cpr.
<i>Marginella regularis</i> Cpr.	<i>Erato columbella</i> Mke.
<i>Marginella pyriformis</i> Cpr.	<i>Lacuna unifasciata</i> Cpr.
<i>Marginella jewettii</i> Cpr.	<i>Isapis fenestrata</i> Cpr.
<i>Diala marmorea</i> Cpr.	<i>Megatebennus bimaculatus</i> Dall.
<i>Diala acuta</i> Cpr.	<i>Amphissa versicolor</i> Dall.
<i>Triforis catalenensis</i> Bartsch.	<i>Mitramorpha aspera</i> Cpr.
<i>Triforis montereyensis</i> Bartsch.	<i>Mitramorpha filosa</i> Cpr.
<i>Eulima distorta</i> Cpr.	<i>Columbella penicillata</i> Cpr.
<i>Jeffreysia bifasciata</i> Cpr.	<i>Barleeia subtenuis</i> Cpr.
<i>Jeffreysia translucens</i> Gld.	<i>Barleeia haliotiphila</i> Cpr.
<i>Rissoina dalli</i> Bartsch.	<i>Placiphorella velata</i> Cpr.
<i>Rissoa grippiana</i> Dall.	<i>Anachis subturrita</i> Cpr.
<i>Ethalia supravallata</i> Cpr.	<i>Lepidopleurus oldroydi</i> Bartsch.
<i>Vitrinella oldroydi</i> Bartsch.	<i>Lepidopleurus nexus</i> Cpr.
<i>Cerithiopsis assimilata</i> C. B. Ad.	<i>Acanthochites diegoensis</i> Pils.
<i>Cerithiopsis cosmia</i> Bartsch.	<i>Trachydermon dentiens</i> Gld.
<i>Bittium quadrifilatum</i> Cpr.	<i>Crepidula dorsata</i> Brod.
<i>Bittium rugatum</i> Cpr.	<i>Lyonsia inflata</i> Conr.
<i>Turbonilla buttoni</i> D. & B.	<i>Lima dehiscens</i> Conr.
<i>Turbonilla tenuicula</i> Gld.	<i>Cardita subquadrata</i> Cpr.

<i>Mangilia nitens</i> Cpr.	<i>Kellia laperousii</i> Desh.
<i>Aesopus myrmacoon</i> Dall.	<i>Lasea rubra</i> Cpr.
<i>Tornatina harpa</i> Dall.	<i>Saxicava arctica</i> Linn.
<i>Leptothyra paucicostata</i> Dall.	<i>Bryophila setosa</i> Cpr.
<i>Leptothyra paucicostata</i> var. <i>rubra</i> Dall.	<i>Sphaenia californica</i> Conr. <i>Hipponix tumens</i> Cpr.

LAND SHELLS OF MONROE CO., PENNSYLVANIA.

BY H. A. PILSBRY.

During September, 1909, I spent a couple of weeks at Bartonsville, Monroe Co., Pa., and employed some of my leisure in collecting shells. The country rock is a shale of Hamilton age. The shells were mostly taken on a steep, stony, wooded hillside facing east, and in a pasture under stones. The species taken are for the greater part common. See also NAUTILUS XXI, p. 67, where Mr. Joshua Baily, Jr., lists Monroe County shells.

<i>Polygyra albolabris</i> (Say).	<i>Vitrea indentata</i> (Say).
<i>Polygyra tridentata</i> (Say).	<i>Euconulus chersinus</i> (Say).
<i>Polygyra fraterna</i> (Say).	<i>Zonitoides arborea</i> (Say).
<i>Polygyra hirsuta</i> (Say).	<i>Zonitoides minuscula</i> (Binn.).
<i>Pyramidula alternata</i> (Say).	<i>Gastrodonta suppressa</i> (Say).
<i>Pyramidula cronkhitei</i> catskill- <i>ensis</i> (Pils.).	<i>Succinea ovalis</i> Say.
<i>Helicodiscus parallelus</i> (Say).	<i>Vallonia excentrica</i> St.
<i>Punctum pygmæum</i> (Drap.).	<i>Vallonia costata</i> (Müll.).
<i>Sphyradium edentulum</i> (Drap.).	<i>Bifidaria pentodon</i> (Say).
<i>Vitrea hammonis</i> (Ström).	<i>Vertigo ovata</i> Say.
<i>Vitrea rhoadsi</i> (Pils.).	<i>Vertigo gouldi</i> Binn.
	<i>Cochlicopa lubrica</i> (Müll.).

NEW CUBAN UROCOPTIDÆ, II.

BY PROFESSOR CARLOS DE LA TORRE.

(Concluded from p. 48.)

UROCOPTIS (GONGYLOSTOMA) TURGIDA n. sp.

Shell rimate, swollen-cylindric, rapidly tapering to a truncate cone above; suture simple. Whorls 8-9, a little convex. Brown, mar-